ExxonMobil

ExxonMobil Chemical

High Density Polyethylene

HD-7845 MMW-HDPE Blown Film Resin

Description

HD-7845 can be processed on high stalk, pocket extrusion or cast lines. Films made from the HD-7845 exhibit an excellent stiffness balance. High thermal stability provides excellent film appearance and high quality recycle. HD-7845 is particularly recommended as a blend component with LLDPE for stiff clear films.

Applications

- Oriented film products
- Protective packaging
- Deli wrap
- Specialty packaging

Resin Properties	Test Based On	Units (SI)	Typical Value[2]
Melt Index (I_2)	ExxonMobil Method	g/10 min	0.45
HLMI (I_{21})	ExxonMobil Method	g/10 min	30
Density	ExxonMobil Method	g/cm^3	0.958

Film Properties[1] (1.0 mil)

Tensile Strength	@ Yield	MD	ASTM D-882	psi (MPa)	4700 (32)
		TD			3750 (26)
	@ Break	MD			10,500 (72)
		TD			5300 (36)
Ultimate Elongation		MD	ASTM D-882	%	410
		TD			5
1% Secant Modulus		MD	ASTM D-882	psi (MPa)	167,000 (1150)
		TD			246,000 (1700)
Elmendorf Tear Strength		MD	ASTM D-1922	g/mil	11
		TD			710
Dart Drop Impact, F_{50}			ExxonMobil Method	g/mil	< 37

1. Film data was obtained on a 3 1/2" blown film line (pocket) with a 2:5:1 blow-up ratio and 60 thousands die gap
2. Values given are typical and should not be interpreted as specification.

FDA Status

HD-7845 is an olefin copolymer which complies with FDA Regulations 21 CFR 177.1520 (c) 3.1 and 3.2, and may be used in articles which are intended to contact foods at or below cooking temperatures.

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FINATHENE®

High Density Polyethylene

7208

Resin Properties[1]	Typical Value	ASTM Method
Melt Flow Index, g/10 min		D-1238
190°C/2.16 kg	0.42	
190°C/5 kg	1.6	
Density, g/cm^3	0.959	D-792
Melting Point, °F	265	D-3417
Mechanical Properties[1][2]		
Tensile Strength at Yield, psi	4,150	D-638, Type IV specimen, 2 in/min
Elongation at Break, %	>750	D-638, Type IV specimen, 2 in/min
Secant Modulus of Elasticity @ 2% strain, psi	160,000	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	150,000	D-790

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) The data listed was determined on compression molded specimens and may, therefore, deviate from molded and extruded specimens.

SPECIALTY HDPE EXTRUSION RESIN

Characteristics

- Medium molecular weight
- Narrow molecular weight distribution
- Designed for high speed orientation
- Excellent tensile strength

Applications

- Monofilament
- Slit tape
- Woven and knitted fabrics
- Specialty films

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